



Department of Conservation and Recreation
 NPDES Storm Water Management Program
 Permit Year 15 Annual Report
 Table 3: Park Facility Best Management Practices

BMP #	Permit Year 15 Activity														6-12	6-13	6-14	6-15					
	1-2	1-4	1-5	1-7	1-8	1-9	2-1	2-5	2-7	2-8	3-1	3-4	3-5										
BMP	CB Stenciling/ Plaques	Interactions with Boat Club Programs	Mobile Water Quality Education Seminars	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Camp Nisan	Abide by MOU with CLF and CRWA	Public Concerns Feedback on DCR Website	Massachusetts Water Resource Commission	Lakes and Ponds Program	Drainage Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	SPCC Plans	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment	Wet Weather Review and Repair						
Facility	Measurable Goal	CB cleaning and repair contractor will maintain stencil plaques each spring as necessary.	Add to boat club permits that they must post and monitor "No Wake" zones.	Provide storm water education events.	Partner with Charles River Conservancy Clean Up Program.	Provide 1 storm water/ water quality related educational program each year.	Provide 1 storm water/ water quality related educational program each year.	Abide by MOU with CLF as it relates to maintenance of park facilities and drainage infrastructure	Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Provide technical and staff support to MWRC.	Continue to Sponsor Program.	Locate outfalls.	Develop state-wide drainage infrastructure map.	Continue to prioritize and review known potential illicit connections.	Continue to maintain compliance with the requirements in these plans.	Perform state wide assessment of roadways and infrastructure conditions annually.	Perform assessment annually. Create assessment report.	Perform an annual review of roads and parking lots within UA during wet weather conditions to identify ponding or flooding areas.	Sweep Streets Annually.	Clean CB and piping every two years.			
Ashtut/ Adams State Park	Not Met							Met	Met	Met	Met	Met									Met	Met	
Alwafic Brook Reservation	Not Met							Met	Met	Met	Met	Met										Met	Met
Amos Nowell State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Ashtand State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Beaver Brook Reservation	Not Met							Met	Met	Met	Met	Met										Met - No sweeping needed	Met
Belle Isle Marsh Reservation	Not Met			Met				Met	Met	Met	Met	Met										Met - No sweeping needed	Met
Blackstone River & Canal HSP	Not Met							Met	Met	Met	Met	Met										Met	Met
Blue Hills Reservation	Not Met			Met				Met	Met	Met	Met	Met										Met	Met
Boston Harbor Islands State Park	Not Met							Met	Met	Met	Met	Met										Met - No sweeping needed	Met
Breakheart Reservation	Not Met			Met			Met	Met	Met	Met	Met	Met										Met	Met
Cape Cod Rail Trail	Not Met							Met	Met	Met	Met	Met										Met - No sweeping needed	Met
Charles River Reservation	Not Met				Met	Met		Met	Met	Met	Met	Met										Met	Met
Charles River Reservation, Lower Basin	Not Met		In Prog		Met	Met		Met	Met	Met	Met	Met										Met	Met
Charles River Reservation, New Basin	Not Met				Met	Met		Met	Met	Met	Met	Met		Met for New Charles River Dam								Met	Met
Charles River Reservation, Upper Basin	Not Met				Met	Met		Met	Met	Met	Met	Met										Met	Met
City Square Park	Not Met							Met	Met	Met	Met	Met										Met - No sweeping needed	Met
Cochichewick State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Columbia Road Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Commercial Point	Not Met							Met	Met	Met	Met	Met										Met	Met
Dunn Pond State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Elm Bank	Not Met							Met	Met	Met	Met	Met										Met	Met
Fall River Heritage State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Fellsmore Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Fort Phoenix State Reservation	Not Met							Met	Met	Met	Met	Met										Met	Met
Foss Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Franklin Park Zoo	Not Met							Met	Met	Met	Met	Met										Met	Met
Hammond Pond Reservation	Not Met							Met	Met	Met	Met	Met										Met	Met
Hampton Pond State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Holyoke Heritage State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
J. Elwell Conservation Area	Not Met							Met	Met	Met	Met	Met										Met	Met
Lawrence Riverfront State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Leo J. Martin Memorial Golf Course	Not Met							Met	Met	Met	Met	Met										Met	Met
Lowell Heritage State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Lowell Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Lynn Heritage State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Lynn Shore Reservation	Not Met							Met	Met	Met	Met	Met										Met	Met
Mary O'Malley State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Medfield State Hospital	Not Met							Met	Met	Met	Met	Met										Met	Met
Middlesex Fells Reservations	Not Met							Met	Met	Met	Met	Met										Met	Met
Mother Brook Reservation	Not Met							Met	Met	Met	Met	Met										Met	Met
Museum of Science	Not Met							Met	Met	Met	Met	Met										Met	Met
Mytic River Reservation	Not Met		In Prog					Met	Met	Met	Met	Met		Met for Amelia Earhart Dam								Met	Met
Nashua Street Park	Not Met							Met	Met	Met	Met	Met										Met	Met
Neposset River Reservation	Not Met							Met	Met	Met	Met	Met										Met	Met
Nickerson State Park	Not Met							Met	Met	Met	Met	Met										Met	Met
North Point Park	Not Met							Met	Met	Met	Met	Met										Met	Not Cleared



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Permit Year 15 Activity										
BMP #	6-18					7.7				
BMP	Maintenance Activity Schedule (MAS)					Priority Resource Area Review				
Facility	Measurable Goal	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review outfalls which discharge to priority resource
Abigail Adams State Park						Met			Not Evaluated	
Alexis Brook Reservation						Met			Not Evaluated	
Ames Nowell State Park						Met			Not Evaluated	
Ashland State Park						Met			Not Evaluated	
Beaver Brook Reservation						Met			Not Evaluated	
Belle Isle Marsh Reservation						Met			Not Evaluated	
Blackstone River & Canal HSP						Met			Not Evaluated	
Blue Hills Reservation						Met			Not Evaluated	
Boston Harbor Islands State Park						Met			Not Evaluated	
Breakneck Reservation						Met			Category 4C - TMDL Not Assessed	
Cape Cod Rail Trail						Met			Not Evaluated	
Charles River Reservation						Met			Not Evaluated	
Charles River Reservation, Lower Basin						Met			Not Evaluated	
Charles River Reservation, New Basin						Met			Not Evaluated	
Charles River Reservation, Upper Basin						Met			Not Evaluated	
City Square Park						Met			Not Evaluated	
Cochichewick State Park						Met			Not Evaluated	
Columbia Road Park						Met			Not Evaluated	
Commercial Point						Met			Not Evaluated	
Dunn Pond State Park						Met			Not Evaluated	
Elm Bank						Met			Not Evaluated	
Fall River Heritage State Park						Met			Not Evaluated	
Fellsmere Park						Met			Not Evaluated	
Fort Phoenix State Reservation						Met			Not Evaluated	
Foss Park						Met			Not Evaluated	
Franklin Park Zoo						Met			Not Evaluated	
Hammond Pond Reservation						Met			Not Evaluated	
Hampton Ponds State Park						Met			Not Evaluated	
Holyoke Heritage State Park						Met			Not Evaluated	
J. Elwell Conservation Area						Met			Not Evaluated	
Lawrence Riverfront State Park						Met			Not Evaluated	
Leo J. Martin Memorial Golf Course						Met			Not Evaluated	
Lowell Heritage State Park						Met			Not Evaluated	
Lowell Park						Met			Not Evaluated	
Lynn Heritage State Park						Met			Not Evaluated	
Lynn Shore Reservation						Met			Not Evaluated	
May O'Malley State Park						Met			Not Evaluated	
Medfield State Hospital						Met			Not Evaluated	
Middlesex Fells Reservations						Met			Not Evaluated	
Mother Brook Reservation						Met			Not Evaluated	
Museum of Science						Met			Not Evaluated	
Mystic River Reservation						Met			Not Evaluated	
Nashua Street Park						Met			Not Evaluated	
Neposner River Reservation						Met			Not Evaluated	
Nickerson State Park						Met			Not Evaluated	
North Point Park						Met			Not Evaluated	



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BMP	CB Stenciling/ Plaques	Interactions with Boat Club Programs	Mobile Water Quality Education Seminars	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Camp Nihon	Abide by MOU with CLF and CRWA	Public Concerns Feedback on DCR Website	Massachusetts Water Resource Commission	Lakes and Ponds Program	Drainage Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	SPCC Plans	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment	Wet Weather Review and Repair				
Facility	Measurable Goal	CB cleaning and repair contractor will maintain stencil plaque each spring as necessary.	Add to boat club permits that they must post and monitor "No Wake" zones.	Provide storm water/ wq education events.	Partner with Charles River Conservancy Clean Up Program.	Provide 1 storm water/ water quality related educational program each year.	Provide 1 storm water/ water quality related educational program each year.	Abide by MOU with CLF as it relates to maintenance of park facilities and drainage infrastructure	Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Provide technical and staff support to MWRC.	Continue to maintain Sponsor Program.	Locate outfalls	Develop state-wide drainage infrastructure map.	Continue to prioritize and review known potential illicit connections.	Continue to maintain compliance with the requirements in these plans.	Perform state wide assessment of roadways and infrastructure conditions annually.	Perform assessment annually. Create assessment report.	Perform an annual review of roads and parking lots within UA during wet weather conditions to identify ponding or flooding areas.	Sweep Streets Annually.	Clean CB and piping every two years.	
Old Harbor Reservation							Met	Met	Met	Met	Met	Met							In Prog	Met	Not Cleaned
Pilgrim Memorial State Park							Met	Met	Met	Met	Met	Met							In Prog	Met	Met
Quincy State Reservation (Iakl Cuddy Park, Wollaston Beach)		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
Quansigamond State Park		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
Riverwalk Park		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
Robinson State Park		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
South Wampanoac Boat Ramp		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Not Cleaned
Southwest Corridor		Not Met					Met	Met	Met	Met	Met	Met - New Inlet							In Prog	Met	Met
Squamam Point Park/ Dorchester Shore Reservation (Iakl. Malibu, Tencan and Savin Hill Beaches)		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
State Fish Pier		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Not Cleaned
Stone Zoo		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
Stony Brook Reservation		Not Met					Met	Met	Met	Met	Met	Met							In Prog	Met	Met
Permit Year 15 Notes	CB Stenciling was performed in certain areas including Wollaston Beach and Revere Beach.	Permits are issued for five year term. Requirement will be added when permit is renewed.	DCR offered state-wide Public Education Events including water quality, storm water education (includes forestry practices, healthy ecosystems, water cycle, children's programs).	Environmental education through the Charles River Reservation School Program was cancelled as of June 2007 due to inadequate staffing. There has continued to be a lack of funding for staffing.	see above	see above	DCR met provisions of CLF/ CRWA MOU.	Concerns/ feedback tracking and response system implemented.	DCR attends monthly and is an active participant	DCR continues to sponsor this program and it now has its own web link on DCR's web site.	DCR has located outfalls from all facilities owned and operated by DCR within urbanized areas.	DCR continues to add to and update the stormwater infrastructure database. DCR's consultant performed and finished field survey mapping infrastructure inventory. Crews continue to investigate features, and the infrastructure database revised appropriately to reflect findings.	DCR's consultant performed follow-up sampling for illicit discharge inspections. For Permit Year 15, DCR's consultant focused on collection areas to Tensan Beach, Dorchester and Stacy Brook, Lynn/Swampscott.	Complied with SPCCC requirements.	DCR inspects roadways and drainage infrastructure annually. Drainage infrastructure is assessed during catch basin cleaning. Maintenance is performed as determined necessary during the inspection.	DCR continued to systematically clean catch basins and water jet the associated outlet drain pipes using private contractor overseen daily by DCR staff. Contractors cleaned and water jetted more than 5,600 catch basins and manholes with these locations recorded using GPS. For Permit Year 15, DCR spent \$2.8M to repair catch basins and drainlines, and \$1.35M to clean catch basins, manholes and drainlines.	DCR inspects roadways for signs of ponding and icing in freezing conditions. DCR makes immediate repairs where ponding causes safety concerns.	To insure adequate street sweeping frequency, DCR entered into a four-year contract in 2014 with a street sweeping contractor to clean certain DCR parkways and roads. This contract is through 2018 and ensures discharges to impaired waters are cleaned using mechanical and vacuum sweeping equipment at least four times per year, and monthly in areas where cars are allowed to park. In 2017 DCR collected 4,104 cubic yards of street sweepings.	DCR replaced/repaired all outfalls along the Mystic River. Contractors cleaned and water jetted more than 5,600 catch basins and manholes with these locations recorded using GPS. For permit year 15 DCR spent \$2.8M to repair drainage lines, catch basins and associated drainage infrastructure. DCR disposed of 1,635 cubic yards of debris from catch basins.		
Planned Activities - May 2018 to April 2019	Park managers will review if their facilities have catch basins and, if appropriate, request a skimming through the DCR's asset management system. CB cleaning contract will include inspection of stencil plaque message and update as necessary.	Continue to include in permits when they are renewed.	Region parks and observations include DCR Coastal Awareness Environmental Education Programs, clean up days, canoe trips, birding trips and beach activities.	No planned activities.	Provide diverse environmental education curricula including water quality.	Provide diverse environmental education curricula including water quality.	Continue to provide semi-annual reports and attend regularly scheduled meetings with CLF/ CRWA to review compliance with MOU.	Continue system.	Continue participation.	Continue sponsorship.	Verify the location and condition of outfalls located from paper maps during illicit discharge detection field tasks.	The infrastructure database is a work in progress which is updated when new construction takes place. Corrections to the database will be made as areas are visited during the illicit discharge investigation and during catch basin cleaning and maintenance efforts. DCR will add features identified during maintenance work.	DCR will inspect 20% of their stormwater system within the urbanized area during the summer and fall of 2019. DCR will continue to update the drainage inventory and identify needs for maintenance and cleaning as part of this field effort.	Continue to comply with SPCCC requirements.	Perform state wide assessment of roadways and infrastructure conditions.	DCR will continue to systematically clean catch basins and water jet the associated outlet drain pipes, as determined necessary, using private contractors overseen daily by DCR staff.	Perform review of roads and parking lots within UA during wet weather conditions to identify ponding or flooding areas.	Sweep all streets at least once. Continue to provide and fund contract for sweeping roadways that discharge to impaired receiving waters using mechanical and vacuum sweeping equipment at least four times per year, and monthly in areas where cars are allowed to park.	DCR will continue to systematically clean catch basins and water jet the associated outlet drain pipes, as determined necessary, using private contractors overseen daily by DCR staff. DCR anticipates a similar budget (\$1.20M) and level of effort when compared to FY18		

	Goal Not Met
	Goal in Progress
	Goal Achieved
	Goal Not Applicable
	Goal Metrics Not Available



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Facility	Measurable Goal	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and stream water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review outfalls which discharge to priority resource
Old Harbor Reservation								Met	Met	Not Evaluated
Pilgrim Memorial State Park								Met	Met	Not Evaluated
Quincy Shore Reservation (Incl Caddy Park, Wollaston Beach)								Met	Met	Not Evaluated
Quinsigamond State Park								Met	Met	Not Evaluated
Riverwalk Park								Met	Met	Not Evaluated
Robinson State Park								Met	Met	Not Evaluated
South Wampanoac Boat Ramp								Met	Met	Not Evaluated
Southwest Corridor								Met	Met	Not Evaluated
Squamam Point Park/ Dorchester								Met	Met	Not Evaluated
Shore Reservoirs (Incl. Malibu, Tenean and Savin Hill Beaches)								Met	Met	Not Evaluated
State Fish Pier								Met	Met	Not Evaluated
State Zoo								Met	Met	Not Evaluated
Stony Brook Reservation								Met	Met	Not Evaluated
Permit Year 15 Notes	Unable to comprehensively report on detention basins, water quality swales and infiltration basins since a comprehensive facility specific database is not available. BMPs shown reflect current database. The database will be finalized upon completion of the drainage system infrastructure inventory. DCR has begun to develop web-based reporting format to better track regional compliance with Maintenance Activity Schedule (MAS). Will install tide gate/backflow preventer in drainage at parking lot of Tenean Beach. Permitted Dedham Parkway drainage improvements.						Met MAS schedule.	Met MAS schedule.	Met MAS schedule.	Identify outfalls which discharge to priority resources. Summarize projects to address impairments in annual reports.
Planned Activities - May 2018 to April 2019	Continue to meet Maintenance Activity Schedule (MAS). Complete drainage system infrastructure inventory. Develop web-based reporting format to more effectively track regional compliance with MAS.									Identify outfalls which discharge to priority resources. Summarize projects to address impairments in annual reports.